

*** It is now 2010/04/19 16:54:49 ***

File 347:JAPIO Dec 1976-2009/Dec(Updated 100326)
(c) 2010 JPO & JAPIO

Set	Items	Description
S1	1875	SAR OR ABSORPTION () RATE
S2	32604	WAVEGUIDE? ? OR WAVE () GUIDE? ?
S3	14	S1 AND S2
S4	600	SAR OR SPECIFIC () ABSORPTION
S5	4	S2 AND S4
S6	161292	(OPTICAL?? OR IMAGE) (N) (FIBRE? ? OR FIBER? ? OR MEDIUM? ?) OR LIGHTGUIDE? ? OR LIGHTPIPE? ? OR LIGHTWAVE? ? OR (WAVE? ? OR LIGHT???) (2N) (GUIDE? ? OR PIPE? ? OR CONDUCT??? OR CHANNEL? ?)
S7	41	S1 AND S6
S8	40	S7 NOT S5
S9	475046	PROBING OR PROBE? ? OR SENSOR? ? OR SENSING OR MICROPROB???
S10	1	S8 AND S9
S11	203474	PHONE OR TELEPHONE? ? OR (MOBILE OR CELLULAR OR HANDHELD OR PORTABLE OR HELD)(IN)(DEVICE? ? OR ELECTRONIC? ? OR TERMINAL? ? OR UNIT? ? OR EQUIPMENT? ?) OR PDA? ? OR PERSONAL () DATA OR CELLPHONE? ?
S12	6	S8 AND S11
S13	34	S8 NOT S12
S14	41	S1 AND S6
S15	16	S4 AND S6
S16	7	S15 NOT S14
Set	Items	Description
S1	1875	SAR OR ABSORPTION () RATE
S2	32604	WAVEGUIDE? ? OR WAVE () GUIDE? ?
S3	1869	ELECTROMAGNETIC? (1W) RADITAT???
S4	475046	PROBING OR PROBE? ? OR SENSOR? ? OR SENSING OR MICROPROB???
S5	14	S1 AND S3
S6	75	S1 AND S4
S7	5	S2:S3 AND S6
S8	14	S5 OR S7

SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1898-2010/Apr W2
(c) 2010 The IET

*File 2: IPC codes have been added to the file. See HELP NEWS 2
for details.

File	6:NTIS 1964-2010/Apr W3
	(c) 2010 NTIS, Int'l Cpyrght All Rights Res
File	8:Ei Compendex(R) 1884-2010/Apr W2
	(c) 2010 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2010/Apr W2
	(c) 2010 The Thomson Corp
File	35:Dissertation Abs Online 1861-2010/Mar
	(c) 2010 ProQuest InfoLearning
File	56:Computer and Information Systems Abstracts 1966-2010/Feb
	(c) 2010 CSA.
File	57:Electronics & Communications Abstracts 1966-2010/Feb
	(c) 2010 CSA.
File	60:ANTE: Abstracts in New Tech & Engineer 1966-2010/Feb
	(c) 2010 CSA.

File 65:Inside Conferences 1993-2010/Apr 20
 (c) 2010 BLDSC all rts. reserv.
 File 68:Solid State & Superconductivity Abstracts 1966-2010/Feb
 (c) 2010 CSA.
 File 95:TEME-Technology & Management 1989-2010/Mar W1
 (c) 2010 FIZ TECHNIK
 File 99:Wilson Appl. Sci & Tech Abs 1983-2010/Feb
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 File 103:ENERGY SCITEC 1974-2010/FEB B1
 (c) 2010 CONTAINS COPYRIGHTED MATERIAL
 *File 103: For access restrictions see Help Restrict.
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 2006 The Thomson Corp
 File 144:Pascal 1973-2010/Apr W2
 (c) 2010 INIST/CNRS
 File 23:CSA Technology Research Database 1963-2010/Feb
 (c) 2010 CSA.

Set	Items	Description
S1	89	AU=GARREAU, P?
S2	131	AU=DUCHESNE, L?
S3	1139	AU=BOLOMEY, J?
S4	29	AU=GARREAU P?
S5	161	AU=DUCHESNE L?
S6	242	AU=BOLOMEY J?
S7	435847	(WAVEGUIDE? ? OR WAVE () GUIDE? ?)/AB, TI
S8	113850	(SAR OR SPECIFIC () ABSORPTION)/AB, TI
S9	750	S7 AND S8
S10	548562	PHONE OR TELEPHONE? ? OR (MOBILE OR CELLULAR OR HANDHELD OR PORTABLE OR HELD) (IN) (DEVICE? ? OR ELECTRONIC? ? OR TERMINAL? ? OR UNIT? ? OR EQUIPMENT? ?) OR PDA? ? OR PERSONAL () DATA OR CELLPHONE? ?
S11	43	S9 AND S10
S12	20	RD (unique items)
S13	0	S1:S6 AND S9
S14	128246	(LIGHTGUIDE? ? OR LIGHTPIPE? ? OR LIGHTWAVE? ? OR (WAVE? ? OR LIGHT???) (2N) (GUIDE? ? OR PIPE? ? OR CONDUCT??? OR CHANNEL? ?))/AB, TI
S15	3267625	(PROBING OR PROBE? ? OR SENSOR? ? OR SENSING OR MICROPROB???) /AB, TI
S16	149	(S7 OR S14) AND S15 AND S10
S17	95	RD (unique items)
S18	88	S17 NOT S12
S19	237	S1:S6 AND S14:S15
S20	0	S1:S6 AND S14 AND S15

File 325:Chinese Patents Fulltext 1985-2005
 (c) 2010 Scipat Benelux NV

Set	Items	Description
S1	0	AU=GARREAU, P?
S2	0	AU=DUCHESNE, L?
S3	0	AU=BOLOMEY, J?
S4	0	AU=GARREAU P?
S5	0	AU=DUCHESNE L?
S6	0	AU=BOLOMEY J?
S7	11869	(WAVEGUIDE? ? OR WAVE () GUIDE? ?)
S8	3239	(SAR OR SPECIFIC () ABSORPTION)

S9 221899 PHONE OR TELEPHONE? ? OR (MOBILE OR CELLULAR OR HANDHELD OR PORTABLE OR HELD) (1N) (DEVICE? ? OR ELECTRONIC? ? OR TERMINAL? ? OR UNIT? ? OR EQUIPMENT? ?) OR PDA? ? OR PERSONAL () DATA OR CELLPHONE? ?

S10 59363 (LIGHTGUIDE? ? OR LIGHTPIPE? ? OR LIGHTWAVE? ? OR (WAVE? ? OR LIGHT???) (2N) (GUIDE? ? OR PIPE? ? OR CONDUCT???) OR CHANNEL? ??))

S11	280961	(PROBING OR PROBE? ? OR SENSOR? ? OR SENSING OR MICROPROB???)
S12	151	(S7 OR S10) AND S8 AND S11
S13	76	S9 AND S12
S14	133	S8/AB, TI
S15	7	(S7 OR S10) AND S14
S16	6	S15 NOT S13
S17	8472	(S7 OR S10)/AB, TI
S18	57444	S11/AB, TI
S19	4	S8 AND S17 AND S18

SYSTEM:OS - DIALOG OneSearch
 File 348:EUROPEAN PATENTS 1978-201014
 (c) 2010 European Patent Office
 File 350:Derwent WPIX 1963-2010/UD=201024
 (c) 2010 Thomson Reuters

Set	Items	Description
S1	9	AU=GARREAU, P?
S2	14	AU=DUCHESNE, L?
S3	16	AU=BOLOMEY, J?
S4	22	AU=GARREAU P?
S5	37	AU=DUCHESNE L?
S6	29	AU=BOLOMEY J?
S7	135332	(WAVEGUIDE? ? OR WAVE () GUIDE? ? OR LIGHTGUIDE? ? OR LIGHTPIPE? ? OR LIGHTWAVE? ? OR (WAVE? ? OR LIGHT???) (1N) (GUIDE? ? OR PIPE? ? OR CONDUCT???) OR CHANNEL? ??)/AB, TI

S8	7399	(SAR OR SPECIFIC () ABSORPTION)
S9	1165827	(PROBING OR PROBE? ? OR SENSOR? ? OR SENSING OR MICROPROB???)/AB, TI
S10	10	S7 AND S9 AND S8
S11	6	S1:S6 AND S8
S12	5	S11 NOT S10
S13	34	S7 AND S8
S14	24	S13 NOT S10:S11

12/9/17 (Item 2 from file: 57)

DIALOG(R)File 57: Electronics & Communications Abstracts

0000381121 IP Accession No: 200609-20-069306

Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz

Jokela, K; Hyysalo, P; Puranen, L

IEEE Transactions on Instrumentation and Measurement , v 47 , n 2 , p 432-438 , Apr. 1998

Publication Date: 1998

Publisher: Institute of Electrical and Electronics Engineers, Inc. , 445 Hoes Ln , Piscataway , NJ , 08854-1331

Country Of Publication: USA

Publisher Url: <http://ieee.org>

Publisher Email: inspec@ieee.org

Document Type: Journal Article

Record Type: Abstract

Language: English

ISSN: 0018-9456

DOI: [10.1109/19.744187](https://doi.org/10.1109/19.744187)

File Segment: Electronics & Communications Abstracts

Abstract:

The radiation safety tests for hand-held mobile phones require precise calibration of the small electric field probes used for the measurement of **specific absorption rate (SAR)** in phantoms simulating the human body. In this study, a calibration system based on a rectangular **waveguide** was developed for **SAR** calibrations at 900 MHz. The cross-sectional dimensions of the **waveguide** are $a=190$ mm and $b=140$ mm. The **waveguide** is loaded with a rectangular liquid slab where the dielectric parameters of the medium simulate human muscle and brain. The precise **SAR** reference is derived from the temperature rise during a short-term (10-15 s) microwave heating of the lossy slab by measuring with sensitive thermistor-type probes equipped with highly resistive lines. The thermistor probes are calibrated against a calibrated mercury thermometer. To improve the uniformity of the electric field at the calibration position, the thickness of the tissue equivalent slab was varied to adjust the standing wave pattern. This resulted in an almost threefold reduction in the positioning error of the E-field probe. The absolute uncertainty of the calibration is estimated to be +/-5% (2sigma) not including the uncertainty of the conductivity. The difference between the thermally measured **SAR** and a value computed with the FDTD method was well within this limit of uncertainty. This kind of closed **waveguide** system is more compact and requires less microwave power than open field calibration systems. Moreover, no radio-frequency interference is generated

Descriptors: Calibration; Planetary probes; Synthetic aperture radar; Waveguides; Slabs; Uncertainty; Electric fields; Computer simulation; Microwaves; Human; Interference; **Telephones**; Cross sections; Muscles; Brain; Errors; Mercury; Reduction; Liquids; Finite difference time domain method

Subj Catg: 20, Components and Materials (General)

10/K,3/6 (Item 6 from file: 350)
 DIALOG(R)File 350: Derwent WPIX

0014102902 *Drawing available*

WPI Acc no: 2004-287143/200427

XRAM Acc no: C2004-110788

XRPX Acc No: N2004-227716

Micro biochemical evaluation equipment useful for evaluating liquid, comprises substrate having flow path on upper surface and chemical sensor used as optical wave guide of flow path

Patent Assignee: COPAL DENSHI KK (COPB)

Inventor: HIRAI E; HIROSE M; SAOTOME Y

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2004061222	A	20040226	JP 2002218082	A	20020726	200427	B

Priority Applications (no., kind, date): JP 2002218082 A 20020726

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2004061222	A	JA	13	36	

...equipment useful for evaluating liquid, comprises substrate having flow path on upper surface and chemical sensor used as optical wave guide of flow path Alerting Abstract ...path (2) of 1 mum dimension was formed on the upper surface and a chemical **sensor** (7) used as an optical **wave guide** (6) of a flow path at the region which contacts the flowing liquid. ...ADVANTAGE - (I) enables to analyze a **specific absorption** spectrum without any turbulence to the liquid sample. (I) also enables to analyze the non... ...optical **wave guide**7chemical **sensor** Technology Focus BIOTECHNOLOGY - Preferred Equipment: In (I), the chemical **sensor** is provided as a liquid which flows through the flow path of the substrate, and used as an optical **wave guide**. The chemical **sensor** is provided in order to prevent the use of a unit for introducing light to the optical **wave guide** which uses conversion unit such as a grating and a prism. The evaluation unit determines... ...refraction change rate at a specific wave length of light which passes along the optical **wave guide** of the chemical **sensor**. The substrate of (I) optionally comprises an incident light unit and an emitted light unit... ...index of the optical path using an other optical path as a reference. The optical **waveguide** is arranged at any one of the base of the flow path, or one or...

DIALOG(R)File 348: EUROPEAN PATENTS
 12/K3/2 (Item 2 from file: 348)
 01813051

METHOD AND SYSTEM FOR MEASURING A SPECIFIC ABSORPTION RATE (SAR)

Patent Assignee:

- **Supelec** (4347830)
 3, rue Joliot-Curie, Plateau de Moulon; 91192 Gif sur Yvette Cedex (FR)
 (Proprietor designated states: all)

Inventor:

- **MERCKEL, Olivier**
 3, rue du General Leclerc; F-91440 Bures sur Yvette; (FR)
- **BOLOMEY, Jean-Charles**
 10, rue Toussaint Feron; F-75013 Paris; (FR)
- ...FR)
 ;;
 • **BOLOMEY, Jean-Charles...**
 ;;

	Country	Number	Kind	Date	
Patent	EP	1597601	A2	20051123	(Basic)
	EP	1597601	B1	20070606	
	WO	2004079299		20040916	
Application	EP	2004713926		20040224	
	WO	2004FR409		20040224	
Priorities	FR	032441		20030227	

Specification: ...de masse de tissu biologique, le DAS en francais (Debit d'Absorption Specifique) ou le SAR en anglais ("Specific Absorption Rate"), qui est prise en compte. La recommandation europeenne 1999/519/EC et le decret.... ...dans un volume de 1g.

La norme europeenne prEN50361 precise le protocole de mesure du SAR. Une sonde electrique isotrope est deplacee dans un fantome, recipient dont la forme reproduit celle... ...constituant la tete. Les caracteristiques dielectriques de ce liquide ont ete determinees par comparaison des SAR obtenus par modelisation numerique, d'une part, avec un fantome homogene et, d'autre part... ...fantome est fixe a quelques millimetres, dans un volume explore de quelques centimetre cubes. Le SAR moyenne dans un cube de 10g ou 1g, selon la norme, se deduit des valeurs... ...antennes, il est necessaire d'obtenir avec un maximum de rapidite des informations relatives au SAR, de la meme facon que sont pratiques les mesures d'adaptation d'impedance, de diagrammes.... ...lourde, peut-il etre utile d'obtenir rapidement une premiere information sur la valeur du SAR. Enfin, il est raisonnable d'envisager l'evolution des normes par l'amelioration de leur... ...oeuvre.

12/K,3/5 (Item 3 from file: 350)
 DIALOG(R)File 350: Derwent WPIX

0014463848 *Drawing available*
 WPI Acc no: 2004-655160/200464
 XRPX Acc No: N2004-518379

Method for measuring specific absorption rate in simulated biological tissue, comprises measurement of electric field amplitude and phase inside container, making transformation and calculating rate

Patent Assignee: ECOLE SUPERIEURE ELECTRICITE (ECOL-N); SUPELEC (SUPE-N)
 Inventor: BOLOMEY J; BOLOMEY J C; MERCKEL O

Patent Family (5 patents, 107 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
FR 2851823	A1	20040903	FR 20032441	A	20030227	200464	B
WO 2004079299	A2	20040916	WO 2004FR409	A	20040224	200464	E
EP 1597601	A2	20051123	EP 2004713926	A	20040224	200577	E
			WO 2004FR409	A	20040224		
EP 1597601	B1	20070606	EP 2004713926	A	20040224	200738	E
			WO 2004FR409	A	20040224		
DE 602004006840	E	20070719	DE 062004006840	A	20040224	200755	E
			EP 2004713926	A	20040224		
			WO 2004FR409	A	20040224		

Method for measuring specific absorption rate in simulated biological tissue, comprises measurement of electric field amplitude and phase inside container... ...Original Titles:METHOD AND SYSTEM FOR MEASURING A SPECIFIC ABSORPTION RATE (SAR)METHOD AND SYSTEM FOR MEASURING A SPECIFIC ABSORPTION RATE (SAR)METHOD AND SYSTEM FOR MEASURING A SPECIFIC ABSORPTION RATE (SAR) Inventor: BOLOMEY J... ...BOLOMEY J C Alerting Abstract ...which measure the amplitude and phase of tangential components and a microcomputer (9) calculates the **specific absorption rate from system analyzer (8) data. ...which simulates biological tissue then determine by transformation the field in the volume and the **specific absorption** rate.... USE - To measure **specific absorption** rate in simulated biological tissue. Particular application to testing the electromagnetic effects of mobile telephone... ...ADVANTAGE - The method measures the **specific absorption** rate quickly and precisely. It is simple to use as the measurement sensors do not... Original Publication Data by AuthorityArgentinaPublication No. ...Inventor name & address:BOLOMEY J... ...BOLOMEY, Jean-Charles... ...BOLOMEY, Jean-Charles... ...BOLOMEY J C... ...BOLOMEY, Jean-Charles Original Abstracts: The invention relates to a very quick method of measuring a **specific absorption** rate (SAR) in a phantom filled with a liquid which reconstitutes the dielectric properties of a biological... ... the electric field in the volume inside the phantom; and calculating the value of the **SAR**. The invention relates to a very quick method of measuring a **specific absorption** rate (SAR) in phantom filled with a liquid which reconstitutes the dielectric properties of a biological... ... the electric field in the volume inside the phantom; and calculating the value of the **SAR**.**

14/K,3/14 (Item 6 from file: 350)
 DIALOG(R)File 350: Derwent WPIX

Optically modulated scatterer for optically modulated scatterer array for measuring spatial distribution of electromagnetic signal/field, e.g. antenna near field, comprises optical waveguide for transmitting optical signal to optical switch

Patent Assignee: HUANG M C (HUAN-I); LIANG W L (LIAN-I); SHAY W T (SHAY-I); IND TECHNOLOGY RES INST (ITRI)

Inventor: HUANG M C; LIANG W L; SHAY W T; HUANG M; LIANG W; SHAY W

Patent Family (4 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050140550	A1	20050630	US 2004936798	A	20040909	200550	B
US 7082230	B2	20060725	US 2004936798	A	20040909	200649	E
TW 237957	B1	20050811	TW 2003136918	A	20031225	200659	E
TW 200522557	A	20050701	TW 2003136918	A	20031225	200957	E

Priority Applications (no., kind, date): TW 2003136918 A 20031225; US 2004936798 A 20040909

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20050140550	A1	EN	16	11	
TW 237957	B1	ZH			
TW 200522557	A	ZH			

...for measuring spatial distribution of electromagnetic signal/field, e.g. antenna near field, comprises optical waveguide for transmitting optical signal to optical switch Alerting Abstract ...a substrate (12); an optical switch (30) electrically connected to the antenna; and an optical waveguide (40) for transmitting an optical signal to the optical switch. ...one-, two-, or three-dimensional distribution of the electromagnetic field, such as antenna near field, specific absorption rate distribution, electromagnetic wave propagation, and electromagnetic compatibility analysis.... 40 Optical waveguide Technology Focus ELECTRONICS - Preferred Component: The optical waveguide is aimed at an interdigital region between the first and second interdigital electrodes. The first... Extension Abstract Original Publication Data by AuthorityArgentinaPublication No. ...Original Abstracts:antenna positioned on the substrate, an optical switch connected to the antenna and an optical waveguide for transmitting an optically modulated signal to the optical switch. The antenna includes a first... ... antenna positioned on the substrate, an optical switch connected to the antenna, and an optical waveguide connected to the optical switch. The antenna includes a first conductive line and a second... ... switch electrically connects the first conductive line and the second conductive line, and the optical waveguide can transmit an optical modulating signal to the optical switch. In addition, the antenna can... ... antenna positioned on the substrate, an optical switch connected to the antenna, and an optical waveguide connected to the optical switch. The antenna includes a first conductive line and a second... ... switch electrically connects the first conductive line and the second conductive line, and the optical waveguide can transmit an optical modulating signal to the optical switch. In addition, the antenna can...

14/K,3/15 (Item 7 from file: 350)
 DIALOG(R)File 350: Derwent WPIX

0014343503 *Drawing available*

WPI Acc no: 2004-531654/200451

Specific absorption rate-enhanced mobile communication terminal

Patent Assignee: PANTECH CO LTD (PCCO); PANTECH NET CO LTD (PCCO)

Inventor: SOHN G T; SON G T

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
KR 2004026819	A	20040401	KR 200258423	A	20020926	200451	B
KR 448695	B	20040916	KR 200258423	A	20020926	200508	E

Priority Applications (no., kind, date): KR 200258423 A 20020926

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
KR 2004026819	A	KO	1	10	
KR 448695	B	KO			Previously issued patent KR 2004026819

Specific absorption rate-enhanced mobile communication terminal Alerting Abstract ...NOVELTY -
 An SAR(Specific Absorption Rate)-enhanced mobile communication terminal is provided to disperse and reduce an electric field proceeding to the head of a user by attaching an electromagnetic **wave conductor** to absorb electromagnetic wave and radiate it in the opposite of the head. ...an antenna(4), at the same surface of a printed circuit board(2). The electromagnetic **wave conductor**(7) made of a conductor plate or a conductive pigment changes a radiation pattern of the antenna(4). In other words, the electromagnetic **wave conductor**(7) absorbs electromagnetic wave generated from the trace line(6) and radiates it toward the... ...opposite direction of the head of a user of a mobile communication terminal. The electromagnetic **wave conductor**(7) is not connected to a ground electric potential, so it does not affect antenna...

13/9/8

DIALOG(R)File 325: Chinese Patents Fulltext
 0001573623
 CN1651907A Drawing available

Absorption power measuring device

Patent Assignee (name, country): NTT DOCOMO INC, JP

Inventor (name, country): IYAMA TAKAHIRO, JP; TARUSAWA YOSHIAKI, JP; UEBAYASHI SHINJI, JP

Patent Publications

	Patent Number	Kind	Date	Application Number	Kind	Date
Main Patent:	CN 1651907	A	20050810	CN 200510051651	A	20020808
Priority:				JP 200268521	A	20020313
				JP 2001240926	A	20010808

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date	Action Date	Source	Office
G01N-022/00			Main		"Version 7"			
G01N-033/00			Secondary		"Version 7"			
G01R-029/08								
G01R-0029/08	C	I		R	200601 01	20051008	M	EP
G01N-0022/00	C	I		R	20060101	20051008< td>M	EP	
G01R-0029/08	A	I		R	200601 01	20051008	M	EP
G01N-0022/00	A	I		R	20060101	20051008< td>M	EP	

Abstract:

The invention claims an absorption power measuring device. The device comprises inserted into the simulating human body part structure and a magnetic property the head part of the simulation model of the inner part of the magnetic field probe in the outer part of radiation to the head part of simulation model is a wireless electric wave the electric field or magnetic field by means of electric field strength magnetic field probe to measuring head part of absorbing the radio wave of the power according to measuring value so as to estimate; Head part of simulation model comprises simulating human body head part structure and a magnetic property of solid dielectric 10' or simulate human head electromagnetic characteristics and is filled to the simulating human body head part of the structure of sealed container the liquid in the dielectric. Solid dielectric 10' of the volume or closed container the volume of less than or equal to 5x10

...

The procedure to determine the **sar specific absorption** rate for hand held Mobiles **telephones** and claims a. Indicating wireless electric wave radiation source of the radio transmitter the Container 11 the outer side of the fixed to the container 11 the surface of vessel 11 of the center position or corresponding to human body head Part of the position of the ear. Detecting an electric or magnetic field of electromagnetic field **probe** 1 is inserted into the liquid medium in and 10 The radio transmitter 3 is opposite to the plane of the scan. The example of head part of simulation model and no 2 Radio transmitter 3 are respectively fixed and only the electric magnetic field **probe** 1 in order to scan to arrowhead 8 the Indicator to move. Magnetic field **probe** 1 the final detection value the square square value multiplied by calibration coefficient To determine the head part of simulation model of 2 the occurrence of the power of the absorption. Lateral excursion of virtual wire 6 represents **probe** 1 Scanning trace the corresponding to the mobile **phone** position for human body of the head part of the ear under the condition of the base along the Which is parallel to the container 11 the bottom surface of the direction of the through the radio transmitter 3 of the shell of the radio transmitter 3 antenna to send and receive in the process of a wireless electric wave absorbing power of the measuring value.